

**Reactor: An Object Behavioral Pattern for Concurrent Event
Demultiplexing and Dispatching (1995) (Make Corrections) (131 citations)**
Douglas C. Schmidt

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Abstract: Factory design patterns [9]), and advanced operating system mechanisms (such as explicit dynamic linking and multi-threading [10]). 9 Sample Code The following code illustrates an example of the Reactor object behavioral pattern. The example implements a portion of the logging server described in Section 2. This example also illustrates the use of an object creational pattern called the Acceptor (described in [7]). The Acceptor pattern decouples the act of establishing a connection from the... ([Update](#))

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...Gateway as a single1 threaded reactive state machine that uses asynchronous network I O. **This design typically combines the Reactor pattern [3], non blocking sockets, and a set of message queues (one per Output Handler) The Reactor pattern and the non blocking sockets provide...**

.... **patterns are useful for documenting the structure and participants in common communication software micro architectures like Reactors [10], Active Objects [11] and Brokers [12] These patterns are generalizations of object structures that have been used successfully to...**

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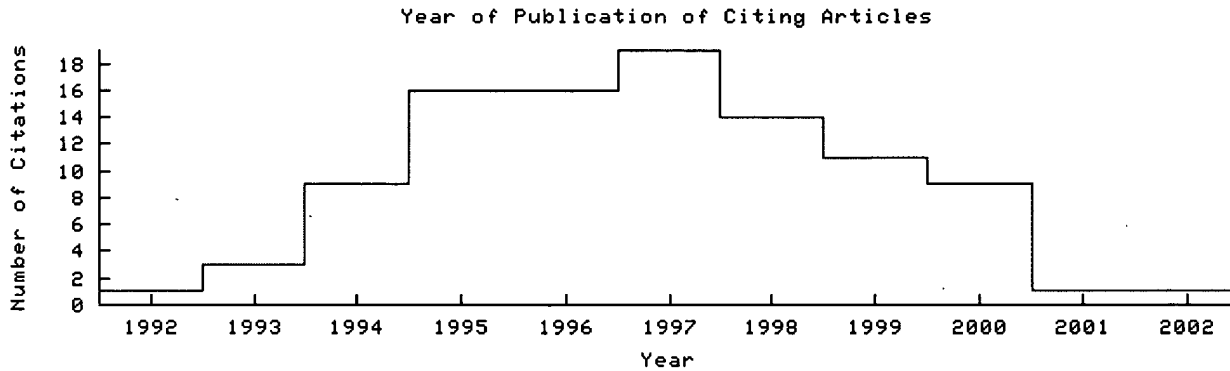
D. C. Schmidt, "Reactor: An Object Behavioral Pattern for Concurrent Event Demultiplexing and Event Handler Dispatching, " in Pattern Languages of Program Design (J. O. Coplien and D. C. Schmidt, eds.), pp. 529-545, Reading, MA: AddisonWesley, 1995. <http://citeseer.csail.mit.edu/schmidt95reactor.html>
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  title = "{Reactor: An Object Behavioral Pattern for Concurrent Event Demultiplexing and Event Handler Dispat",  
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